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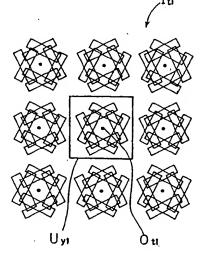
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Method of recording halftone dot image.

Screen patterns for respective color components are represented by arrays of unit regions. The arrays for respective color components have a same array pitch and a same array orientation. Color component images are converted into color component halftone dot images through the screen patterns. When the density of the color component images is in a predetermined range, the color component halftone dot images have a plurality of linear dot elements in each unit region. The plurality of linear dot elements extend in a predetermined direction which is different for each color component.

FIG.3E



EP 0 417 806 A3

EUROPEAN SEARCH REPORT

Application Number

| DOCUMENTS CONSIDERED TO BE RELEVANT | | | | | EP 90 11 7 |
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| Category | The state of document with indication where | | | | |
| | | oviciovant passages | | Relevant to claim | CLASSIFICATION OF THE APPLICATION (Int. CI.5) |
| Υ | DE-A-3 620 334 (SH/ | ARP K.K.) | | | |
| | * The complete document * | | | 1-15 | H 04 N 1/46 |
| Υ | 1 | | | 100 | |
| r | US-A-4 595 948 (ITO) | H et al.) | | 1-15 | |
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| | The Hague | 25 Octob | oer 91 | | • |
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| 7: NON-Written disclosure | | | | ted for other re | easons |
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